



(19)

(11) Publication number: **5**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **58057411**(51) Intl. Cl.: **H01P 5/19**(22) Application date: **31.03.83**

(30) Priority: (43) Date of application publication: 17.10.84 (84) Designated contracting states:	(71) Applicant: FUJITSU LTD (72) Inventor: KANEKO YOSHIAKI SAITO TOSHIYUKI OKUBO HISAFUMI (74) Representative:
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(54) BRANCHING AND COMBINING DEVICE

(57) Abstract:

PURPOSE: To attain easy manufacture and broad-band characteristics by providing respectively a stub to inter-stages tying linearly lines and ports of an inter-stage connecting section of a branching and combining device of multistage constitution formed by the strip lines.

CONSTITUTION: The stub 9 is provided between the lines 4 and 5 tying linearly the ports P1 and P3 of the branching and combining device of two-stage formed by the strip lines and the stub 10 is provided between the lines 6 and 7. Further, the stub 8 is provided at the middle of the line 2 serving as the inter-stage connecting section between the lines 4, 5 and the lines 6, 7. The broad-band branching or combining is attained by providing the stubs 8, 9 and 10 because the distribution characteristic from the port P1 to the port P3 or the port P4 is

coincident with each other over a broad band and the distribution characteristic from the port P2 to the port P3 or the port P4 is coincident similarly. Further, the insertion loss is decreased. Since a desired distribution characteristic is obtained without thinning the width of the lines 1 and 3 too much, the advantage of ease of manufacture is attained.

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